

Research Training Group 2338 – Targets in Toxicology

GRK 2338 RTG “Targets in Toxicology - Deciphering Therapeutic Targets in Lung Toxicology”

Annual Research Retreat 2025

Schloss Tutzing
May 12 – May 13, 2025

PROGRAM



Research Training Group 2338 – Targets in Toxicology

Monday, 12.05.2025

11:00 – 11:15 **Prof. Dr. med. Thomas Gudermann**
 "Welcome"

Session 1: Chair: Rosa Reithmeir & Alexa Wachtler

11:15 – 12:00 **Prof. Dr. med. Sebastian Kobold**
How immune cells can be deployed for cancer therapy

12:30 – 13:30 --- *Lunch* ---

13:30 – 13:50 **Anja Michl – P06**
Spatially resolved single cell analysis of human lung aging

13:55 – 14:15 **Osama Huzain – P05**
Nanomaterial-Cell Interactions: Towards In Vitro Models for High Throughput Prediction Assays

14:20 – 14:40 **Randhwaj Pratap Singh – P04**
Lungs Interstitial macrophages and TRP channels

14:45 - 15:05 **Susanne Hermann– P11**
Molecular mechanisms of immune response and exhaustion in male and female patients with non-small cell lung cancer

15:05 – 15:35 --- *Coffee* ---

Session 2: Chair: Rosa Reithmeir & Alexa Wachtler

15:40 - 16:00 **Vladyslav Parkhomov – P08 MD**
Role of endolysosomal cation channels in chronic inflammatory diseases

16:05 - 16:25 **Alisa Riediger – P07**
Immuno-toxicological mechanisms driving airway loss as a pathological trigger of COPD initiation

16:30 – 16:50 **Dmytro Sirokha – P11 Affiliate**
Myeloid Cells as Drivers from Healthy Lung to IPF: Multidimensional Analysis of Transcriptomic and Proteomic Changes

18:00 – 19:00 --- *Dinner* ---

19:30 **Networking and Scientific Exchange**

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Tuesday, 13.05.2025

08:00 – 09:00 --- Breakfast ---

Session 3: Chair: Osama Huzain + Randhwaj Pratap Singh

09:10 - 09:30	Vasco Peixoto – P10 <i>Mapping the function of TRPM7 in respiratory cells</i>
09:35 - 09:55	Alexa Wachtler – P03 <i>Development of a fluorescence-based assay for investigating effects on chymotrypsin activity caused by small molecule inhibitors</i>
10:00 - 10:20	Ghofrane Ben Helal – P12 <i>Aptamers for Targeted Delivery of Nucleoside Drugs</i>
10:25 - 10:45	Zala Serianz – P08 <i>TRPML channels in lung disease</i>
10:45 – 11:15	--- Coffee ---

Session 4: Chair: Osama Huzain + Randhwaj Pratap Singh

11:15 - 11:35	Anna van Echten – P02 <i>Investigation of mucin expression induced by organophosphorus compounds using PCLS</i>
11:40 - 12:00	Pranavkumar Shadamarshan Rengasayee – P13 <i>Functional Dissection of Neuroendocrine Differentiation in Small-Cell Lung Cancer Models</i>
12:05 - 12:25	Hala Mammadova – P06 MD <i>Imaging functional perturbations in lung tissue slice cultures — Understanding chronic lung disease one cell at a time</i>
12:30 - 13:45	--- Lunch ---
13:50- 14:00	Rosa Reithmeir – 01 <i>Identification of interaction partners of the pro-inflammatory P2X7 receptor by proximity labelling</i>
14:00 – 14:10	Alexander Diederichs – 09 <i>Therapeutic manipulation of the alveolar macrophage in lung fibrosis</i>
14:10 – 14:15	Thomas Gudermann "Closing"
14:15 – 14:30	--- Coffee ---